

**MATERIAL SAFETY DATA SHEET**  
**Strike Force**

FILE NO.: 5200  
MSDS DATE: 02/23/2012

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Strike Force  
**PRODUCT CODES:** 5200  
**MANUFACTURER:** Mid-American Rsrch  
**ADDRESS:** P.O. Box 927  
Columbus, NE 68602-0927

**PRODUCT USE:** Degreaser  
**EMERGENCY PHONE:** 1-800-231-0454  
**CHEMTEL PHONE:** 1-800-255-3924  
**OTHER CALLS:** 402-564-7104

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>PEL</b>	<b>TLV</b>
Glycol Ether DB	112-34-5	N/A	25 ppm
1,8-P-Menthadiene	5989-27-5	N/A	N/A
Isoparafinic Hydrocarbon	64742-47-8	5 mg/m3	5 mg/m3
Non-ionic Surfactant	127087-87-0	N/A	N/A
Isopropyl Alcohol	67-63-0	400 ppm	200 ppm
Propane/n-Butane	68476-86-8	N/A	1000 ppm

**SECTION 3: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Irritant to skin, eyes, respiratory tract  
**ROUTES OF ENTRY:** Skin, Eyes, Respiratory Tract, and Ingestion  
**POTENTIAL HEALTH EFFECTS:** **EYES:** May causes irritation, redness, and pain. **SKIN:** Brief contact is not irritating. Prolonged skin contact may cause irritation to skin, defatting. **INGESTION:** May cause irritation to the gastrointestinal tract, nausea, vomiting, diarrhea, headache, depending on the amount ingested. **INHALATION:** Causes irritation to the respiratory tract.  
**ACUTE HEALTH HAZARDS:** See above. **CHRONIC HEALTH HAZARDS:** May be toxic to kidneys and liver.  
**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER:

**SECTION 4: FIRST AID MEASURES**

**EYES:** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Seek medical attention. **SKIN:** Thoroughly wash the contaminated skin with soap and water. Wash contaminated clothing before reusing. **INGESTION:** Do not induce vomiting. Rinse mouth and seek immediate medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABLE LIMITS IN AIR, (% BY VOLUME)** UPPER: N/A LOWER: N/A  
**FLASH POINT:** F: N/A C: N/A **METHOD USED:** AUTOIGNITION TEMPERATURE: F: N/A C: N/A  
**NFPA HAZARD CLASSIFICATION:** HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **OTHER:**  
**HMIS HAZARD CLASSIFICATION:** HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **PROTECTION:** A  
**EXTINGUISHING MEDIA:** Dry chemical, alcohol foam, alcohol-resistant foam, carbon dioxide and water for large fires. Water spray may be used to keep fire exposed containers cool. Cool containers with flooding quantities of water until well after fire is out.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool fire exposed containers. Containers can build up pressure if exposed to heat and/or fire. It is always recommended to use SCBA when fighting fires.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure. Exposure to temperatures above 120 F may cause bursting.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:** Wear recommended protective equipment. mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Wash area with suitable detergent and thour. Dispose of according to local, state, and federal requirements.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING AND STORAGE:** Store in cool, dry, ventilated area. Exposure to temperatures above 120 F may cause bursting.

**OTHER PRECAUTIONS:** Vapor may collect in low lying areas. Keep out of the reach of children. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** **VENTILATION:** Use in well ventilated areas. Local exhaust preferred to general.  
**RESPIRATORY PROTECTION:** Use only in well ventilated areas. If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

**EYE PROTECTION:** Safety glasses, goggle.

**SKIN PROTECTION:** Rubber or neoprene gloves

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

**WORK HYGIENIC PRACTICES:** Avoid contact with skin or eyes. Wash hands after use.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** White aerosol spray

**PHYSICAL STATE:** Liquid, Spray

**BOILING POINT:** F: >212 C: >100

**VAPOR PRESSURE (mmHg):** <17 @ F: 75 C: 23

**VAPOR DENSITY (AIR = 1):** >1 @ F: 75 C: 23

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.992 @ F: 75 C: 23

**EVAPORATION RATE: BASIS (=1):** <1 @ F: 75 C: 23

**PERCENT VOLATILE: 5% BY WT/ BY VOL @** F: C:

**VOLATILE ORGANIC COMPOUNDS (VOC):** WITH WATER: 0 LBS/GAL

**ODOR:** Mild Citrus

**pH AS SUPPLIED:** 11.00

**MELTING POINT:** F: C:

**SOLUBILITY IN WATER:** 92%

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** **STABLE:** X **UNSTABLE:**

**CONDITIONS TO AVOID (STABILITY):** Incompatible materials, excess heat.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing, acids, and reducing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of Carbon

**HAZARDOUS POLYMERIZATION:** will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** None

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION:**

Isoparaffinic Hydrocarbon - 64742-47-8: Oral rat LD50: 5 g/kg; Skin rabbit LD50: 2 g/kg; Inhalation rat LC50: 5 mg/L (4-hr)  
Non-ionic Surfactant -127087-87-0; Oral rat LD50: 1.77 - 4.53 ml/kg; Skin rabbit LD50: 2.83(1.75-4.57) ml/kg; 24 h occluded  
Glycol Ether DB - 112-34-5; Oral rat LD50: 5,660 mg/kg, Dermal rabbit LD50: 2,700 mg/kg, Dermal rabbit LD50 4,120 mg/kg.

Isopropyl Alcohol - 67-63-0 - Oral LD50 (Rat) >5045 mg/kg, Oral LD50 (Rabbit) >5045 mg/kg, Dermal LD50 (Rabbit) >12800 mg/kg, LC50 (Rat) 16,000ppm 8hr; May cause reproductive/teratogenic effects (fertility, fetotoxicity, developmental abnormalities(developmental toxin)) based on animal studies. Detected in maternal milk in human.

1,8-P-Menthadiene 5989-27-5: ORAL LD50: Acute: 4400 mg/kg [Rat]. 5600 mg/kg [Mouse]. DERMAL LD50: Acute: >5000 mg/kg [Rabbit].

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** Non-ionic Surfactant - 127087-87-0 - Not expected to be persistent or bioaccumulate. Ecotoxicity in water (LC50): 21.4 mg/l 48 hours [Daphnia]. 6.6 mg/l 96 hours [Daphnia]. 7.7 mg/l 96 hours [Fish (Fathead Minnow)]. 4.8 mg/l 96 hours [Fish (Fathead Minnow)]. 6.6 mg/l 96 hours [Fish (Fathead Minnow)].

Glycol Ether DB - 112-34-5 - Toxicity to fish LC50 - Lepomis macrochirus - 1,300 mg/l - 96 h; LC0 - Leuciscus idus (Golden orfe) - > 1,000 mg/l - 48 h; Toxicity to daphnia and other aquatic invertebrates, EC50 - Daphnia magna (Water

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flea) - > 100 mg/l - 48 h; Toxicity to algae IC50 Desmodismus subspicatus (green algae) > 100 mg/l - 24 h; Toxicity to bacteria LC50 - Pseudomonas putida - 1,170 mg/l - 16 h.  
Isopropyl Alcohol - 67-63-0 - Ecotoxicity in water (LC50): 100000 mg/l 96 hours [Fathead Minnow]. 64000 mg/l 96 hours [Fathead Minnow]. IPA has high biochemical oxygen demand and potential to cause oxygen depletion in aqueous systems, IPA has a low potential to affect aquatic organisms, secondary waste treatment microbial metabolism, and germination of some plants. THOD: 2.40 g oxygen/g COD: 2.23 g oxygen/g BOD-5: 1.19-1.72 g oxygen/g

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, State and Federal regulations. Do not puncture container, wrap container and place in trash collection.

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:** Consumer Commodity

**ID NUMBER:**

**PACKING GROUP:** None

**PRIMARY HAZARD CLASS/DIVISION:** ORM-D

**LABEL STATEMENT:**

**WATER TRANSPORTATION**

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

**PRIMARY HAZARD CLASS/DIVISION:** 2.2

**UN/NA NUMBER:** 1950

**Packing Group:** None

**LABEL STATEMENTS:**

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

**PRIMARY HAZARD CLASS/DIVISION:** 2.2

**UN/NA NUMBER:** 1950

**Packing Group:** None

**LABEL STATEMENTS:**

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All ingredients are listed.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

**302 HAZARD CATEGORIES:** None

**304 CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**311/312 HAZARD CATEGORIES:** None

**313 REPORTABLE INGREDIENTS:** Glycol Ether DB - 112-34-5

**CA: Prop 65 cancer and birth defects or reproductive harm** - This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Isopropyl Alcohol - CAS 67-63-0: Right-to-Know acts for Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, New Jersey, Tennessee Connecticut hazardous material survey.; Isopropyl alcohol Illinois toxic substances disclosure to employee act

Isoparafinic Hydrocarbon - 64742-47-8: Rhode Island RTK, Pennsylvania RTK, New Jersey RTK

**INTERNATIONAL REGULATIONS:**

**EINECS:** Glycol Ether DB - 112-34-5;

**Australia:** Glycol Ether DB - 112-34-5;

**Korea:** Glycol Ether DB - 112-34-5;

**Japan:** Glycol Ether DB - 112-34-5;

**WHMIS (Canada):** Glycol Ether DB - 112-34-5;

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**SECTION 16: OTHER INFORMATION**

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**PREPARED BY:** Juanita Mercure

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